IN THE U.S. PATENT AND TRADEMARK OFFICE

APPLICANTS:

Michael J. Borden and Jason F. Shepherd

SERIAL NO.:

Unknown

GROUP NO.

FILED:

6/23/03

EXAMINER:

FOR:

Method of Modifying a Volume Mesh Using Sheet Insertion

Assistant Commissioner for Patents

Washington, D.C. 20231

June 23, 2003

INFORMATION DISCLOSURE STATEMENT

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

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2. Form PTO - 1449 (Modified).

3. The person making this statement is the attorney or agent who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's or agent's file.

Dated: 6-23-03

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CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below as Express Mail No. EV332387111US in an envelope addressed to the: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: 6/23/03

Viola Campos

| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) | | | | | SD-6997 | APPLICATION NO. NEW | | | |
|---|--|-------------------------|-----------------|----------------------------|----------------------------------|------------------------|---------------------|-----------|-------------------|
| | | | | | Michael J. Borden, et al | | | | |
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| | | | U | .S. PATENT D | OCUMENTS | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | | Kind | DATE | NAME | CLASS | SUB CLASS | | G DATE OPRIATE |
| | US | US5,768,156 | | 1998-06-16 | TAUTGES et al. | | | | |
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| OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | | | | | |
| | Michael J. Borden, "Modification of All-Hexahedral Finite Element Meshes by Dual Sheet Insertion and Extraction," M.S. thesis, Brigham Young University, August 2002. | | | | | | | | |
| | Murdoch, Benzley, Blacker, Mitchell, "The spatial twist continuum: A connectivity based method for representing all-hexahedral finite element meshes." Finite Elements in Analysis and Design 28 (1997) 137-149, containing background information on whisker weaving and the spatial twist continuum. | | | | | | | | |
| | Knupp, Mitchell, "Integration of Mesh Optimization with 3D All-Hex mesh Generation," Sandia national Laboratories, SAND99-2852, November 1999, background on 3D mesh generation. | | | | | | | | |
| | Folwell and Mitchell, "Reliable Whisker Weaving via Curve Contraction," paper on the 3D problem. (9 pages) Whisker weaving is not working, but the paper demonstrates a need for research in the 2D and 3D areas. Surface Splicing successfully addresses the 2D problem. | | | | | | | | |
| EXAMINER | . 1, | | | | DATE CONSIDERED | | | | |
| EXAMINER: I | nitial if cit | ation considered, wheth | er or not cita | ation is in conformance wi | th M.P.E.P. 609; Draw line throu | gh citation | if not in co | nformance | and not |
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